

FIG. 1

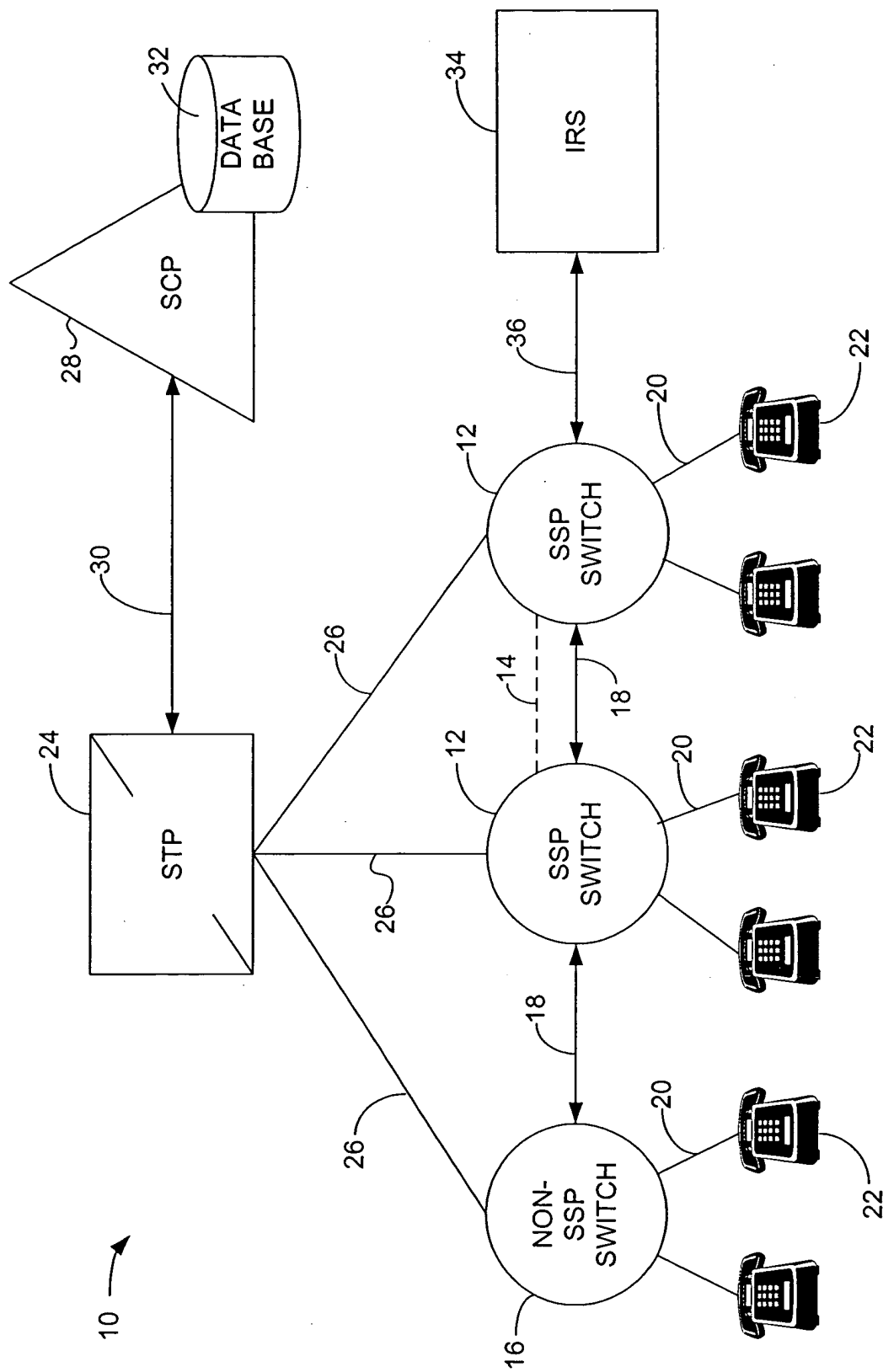


FIG. 2

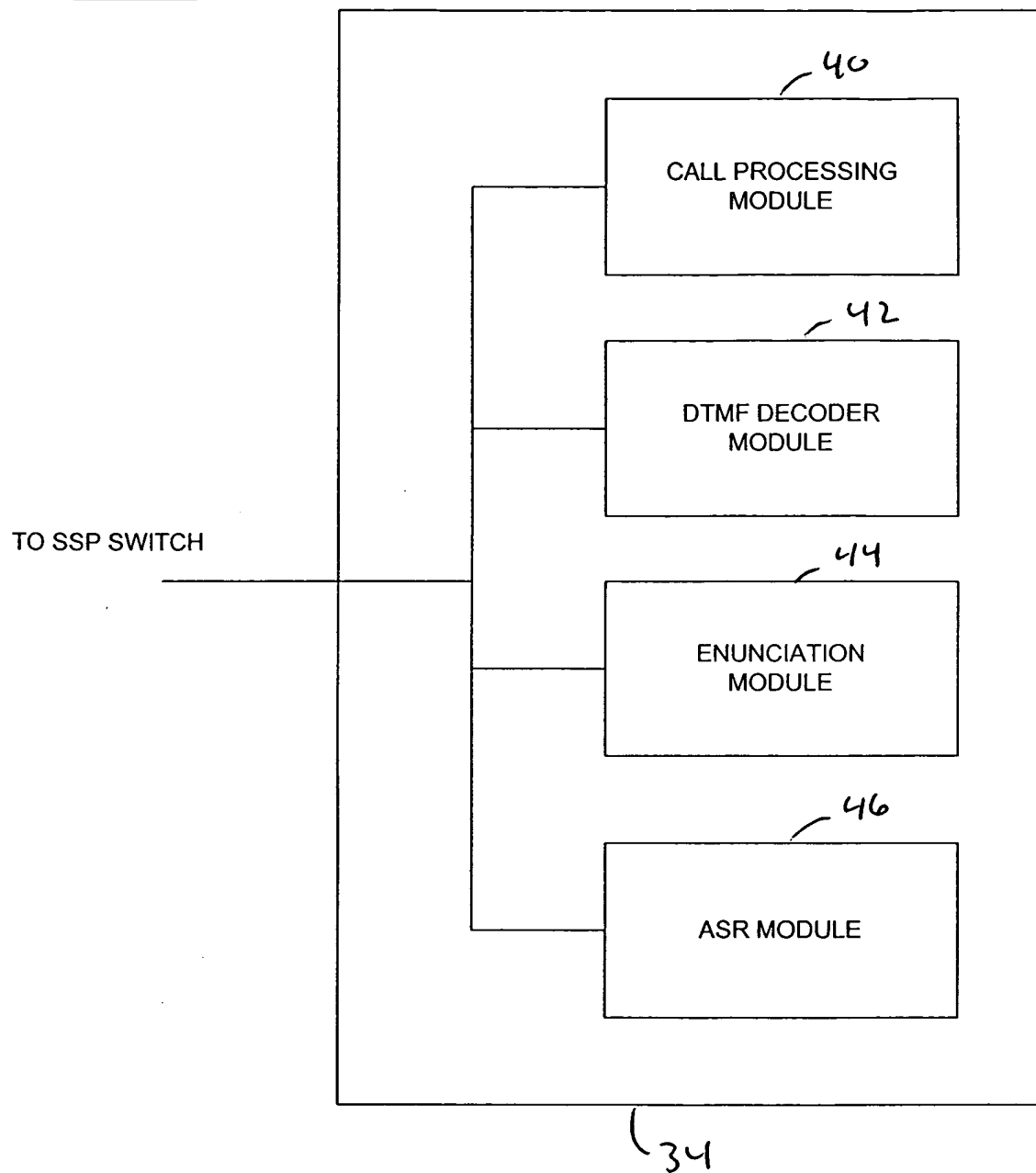
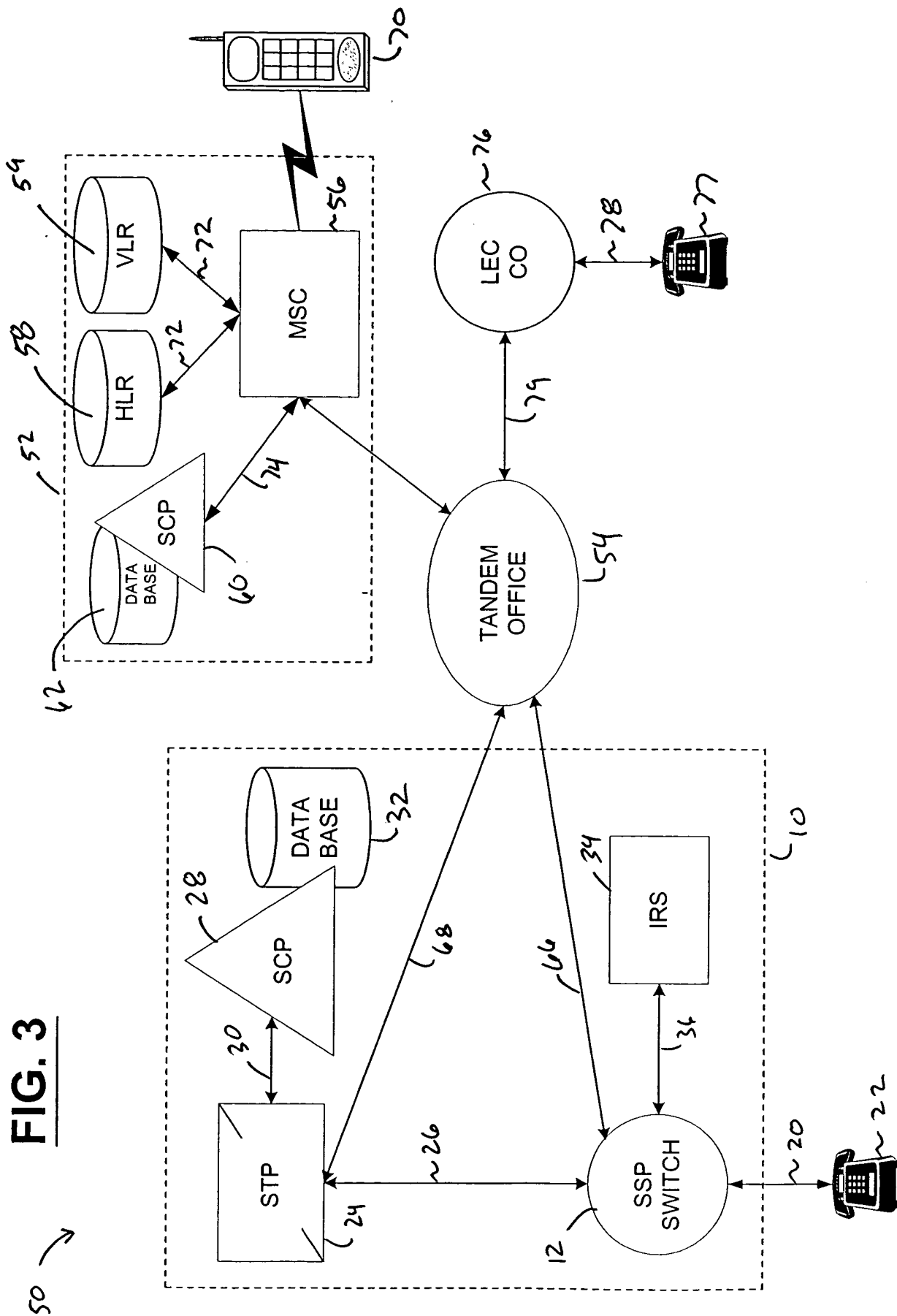


FIG. 3



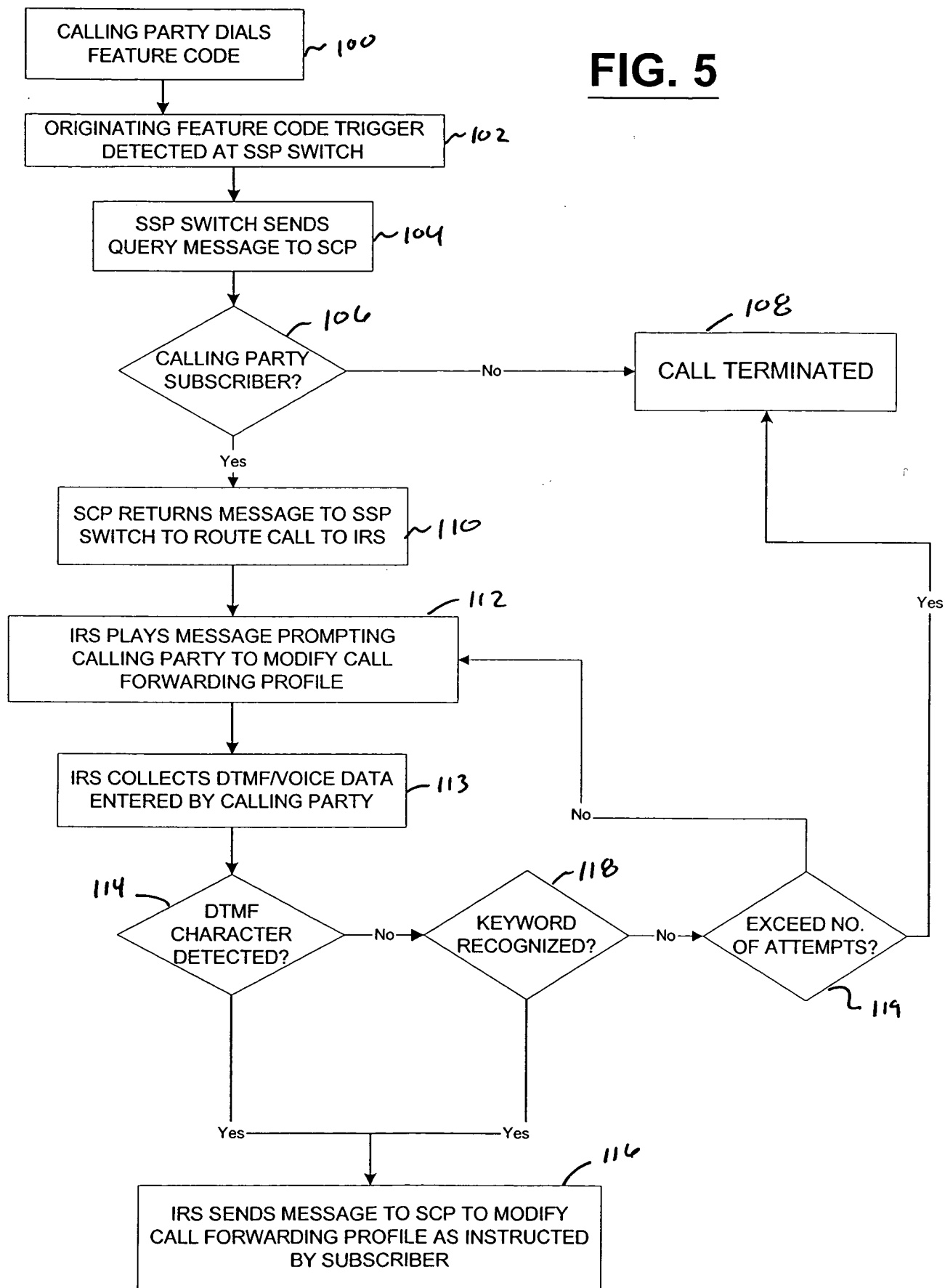
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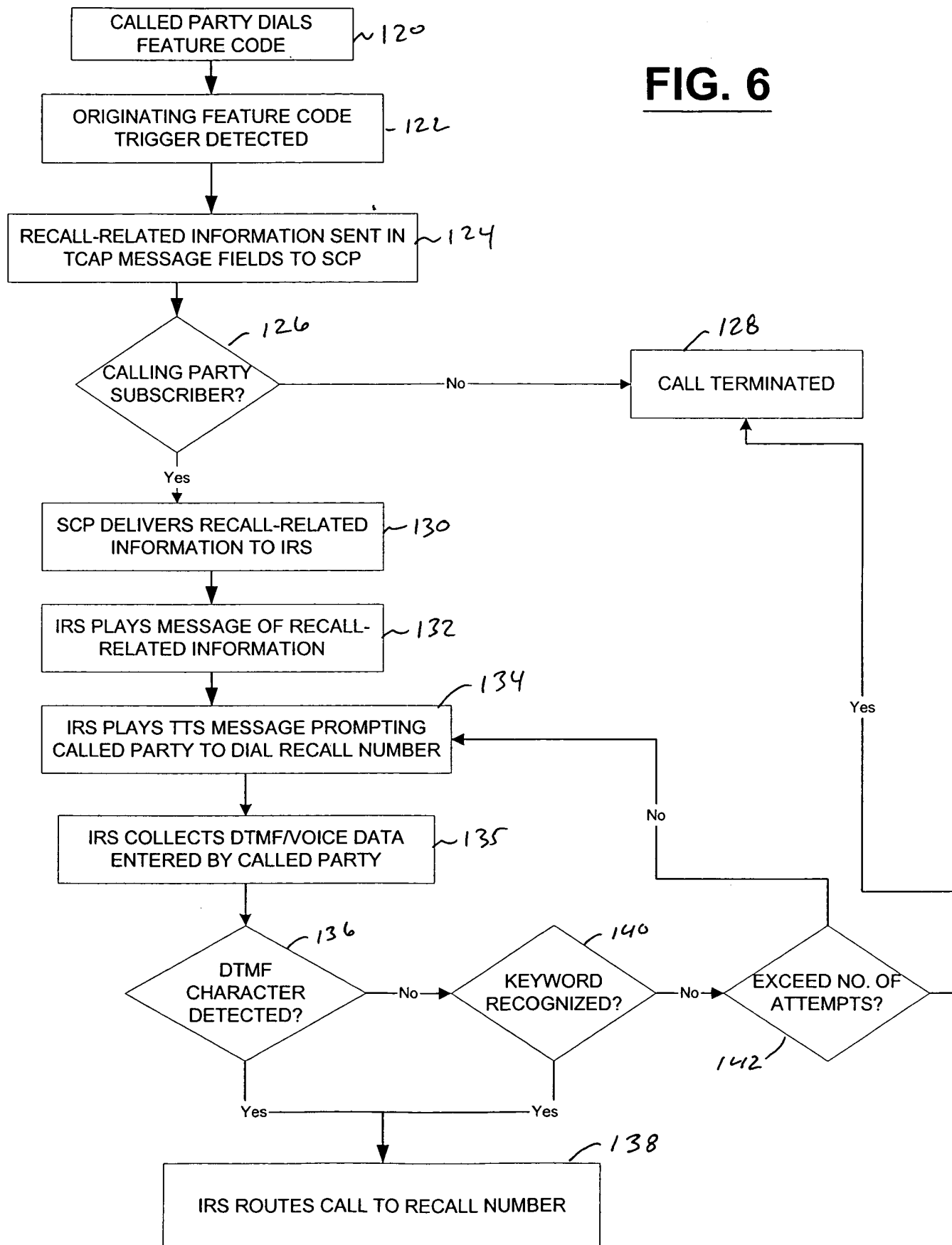
graph TD
    80[CALLING PARTY PLACES CALL TO CALLED PARTY] --> 82[SSP SWITCH SENDS QUERY MESSAGE TO SCP]
    82 --> 84{CALLED PARTY SUBSCRIBER?}
    84 -- No --> 86[SCP RETURNS MESSAGE TO SSP SWITCH WITH INSTRUCTIONS TO APPLY CONVENTIONAL TELEPHONE SERVICE]
    84 -- Yes --> 88[SCP RETURNS MESSAGE TO SSP SWITCH TO ROUTE CALL TO IRS]
    88 --> 90[IRS ACCEPTS CALL AND PLACES OUTGOING CALL TO CALLED PARTY]
    90 --> 91[IRS PLAYS MESSAGE PROVIDING CALLING PARTY'S NAME AND NUMBER]
    91 --> 92[IRS PLAYS MESSAGE PROMPTING CALLED PARTY]
    92 --> 93[IRS COLLECTS DTMF/VOICE DATA ENTERED BY CALLED PARTY]
    93 --> 94{DTMF CHARACTER DETECTED?}
    94 -- No --> 96{KEYWORD RECOGNIZED?}
    94 -- Yes --> 95[IRS ROUTES CALL ACCORDING TO RECOGNIZED COMMAND]
    96 -- Yes --> 95
    96 -- No --> 98{EXCEED NO. OF ATTEMPTS?}
    98 -- Yes --> 99[DEFAULT PROCESSING]
    98 -- No --> 92

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FIG. 4

FIG. 5





SECRET

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graph TD
    150[CALLING PARTY WITH BLOCKED OR UNKNOWN NUMBER PLACES CALL TO CALLED PARTY] --> 152[SSP SWITCH SENDS QUERY TO SCP]
    152 --> 154{CALLED PARTY SUBSCRIBER?}
    154 -- No --> 156[SCP RETURNS MESSAGE TO SSP SWITCH WITH INSTRUCTIONS TO APPLY CONVENTIONAL TELEPHONE SERVICE]
    154 -- Yes --> 158[SCP RETURNS MESSAGE TO SSP SWITCH TO ROUTE CALL TO IRS]
    158 --> 160[IRS ACCEPTS CALL AND PLAYS MESSAGE FOR CALLING PARTY ANNOUNCING THAT CALL CANNOT BE COMPLETED UNLESS CALLING PARTY IDENTIFIES ITSELF]
    160 --> 162[IRS PLAYS TTS MESSAGE ASKING IF CALLING PARTY CHOOSES TO BE IDENTIFIED]
    162 --> 163[IRS COLLECTS DTMF/VOICE DATA FROM CALLING PARTY]
    163 --> 164{DTMF CHARACTER DETECTED?}
    164 -- No --> 168{KEYWORD RECOGNIZED?}
    164 -- Yes --> 166[CALL ROUTED TO CALLED PARTY]
    168 -- No --> 169{EXCEED NO. OF ATTEMPTS?}
    168 -- Yes --> 166
    169 -- No --> 162
    169 -- Yes --> 170[CALL TERMINATED]
  
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FIG. 7

CALLING PARTY DIALS FEATURE CODE ~ 180

ORIGINATING FEATURE CODE TRIGGER
DETECTED AT SSP SWITCH

SSP SWITCH SENDS QUERY MESSAGE TO SCP -184

CALLING PARTY
SUBSCRIBER?

FIG. 8

CALL TERMINATED

SCP RETURNS MESSAGE TO ROUTE CALL TO OPSS

OPSS PROVIDES CALLING PARTY
REQUESTED INFORMATION

OPSS ROUTES CALL TO IRS

IRS PLAYS MESSAGE PROMPTING CALLING
PARTY TO PLACE CALL TO PARTY ABOUT WHOM
INFORMATION WAS REQUESTED

IRS COLLECTS DTMF/VOICE DATA FROM
CALLING PARTY

CHARACTER
DETECTED?

KEYWORD
RECOGNIZED?

EXCEED NO.
OF ATTEMPTS

IRS PLACES CALL TO PARTY ABOUT
WHOM INFORMATION WAS REQUESTED

005080" 59T.5E960

